CE

Automotive Air-Conditioning Service Equipment

Ariazone 5001HD

OPERATOR MANUAL

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1. Introduction

Ariazone 5001HD - Automotive A/C Service Station (Recovery, Recycling, Evacuation and Charging System) is a user-friendly tool specifically designed for the automotive air-conditioning technicians, to carry out the following functions:

- Testing air conditioning system,
- Recovery and recycling the refrigerant from a/c system,
- Gauge amount of refrigerant recovered from air-conditioning system.
- Gauge amount of oil removed from air-conditioning system (if any),
- Evacuate air-conditioning system,
- Charge lubrication oil or UV dye by volume into the air-conditioning system,
- Electronically charge the refrigerant into a/c system by weight.

The unit is a microprocessor controlled system. This provides electronically controlled functions, whilst keeping the operator constantly informed and in full control.

This unit has been designed and build to be long lasting and with high level of reliability including maximum safety for the operator. The operator needs only to be responsible for the proper use and maintenance of the unit, in accordance with the instructions found in this manual.

This manual contains important information pertinent to operator safety, and must accompany the unit, in the case of sale or transfer to another party.

Manufacturer reserves the right to modify this manual and the unit itself at any time without prior notice.

Environmental information

This product may contain substances that can be hazardous to the environmental or to human health if it's not disposed of properly.

Electrical and electronic equipments should never be disposed of in the usual municipal waste, but must be separately collected for their proper treatment (recycling).

We also recommend that you adopt appropriate measures for environmental protection: recycling of the internal and external packaging of the product, including batteries (if any).

With your help it is possible to protect our planet and improve the quality of life, by preventing potentially hazardous substances being released in to our environment.

2. SAFETY FIRTS! Importatnt safety information's

Ariazone 5001HD unit is extremely simple and reliable in selecting and performing all it's functions. Therefore, the user is not exposed to any risk, if the general safety guidelines reported below are followed, in association with proper use and maintenance of the unit (improper use and maintenance will reduce the safety of the unit).

- **Read this user manual carefully** before operating the unit. If you do not understand any section of this manual, please contact **Ariazone International** direct or your nearest **Ariazone distributor**.

- **This equipment is to be operated by accredited technician only!** Users must have basic knowledge of air-conditioning and refrigeration systems, including potential hazards associated with the handling of refrigerants and systems under high pressure.

- Handle refrigerant with care as serious injury may occur. **Always wear appropriate protective clothing and safety glasses.**

- **Avoid inhalation of the refrigerant**. Use only in well ventilated work areas.

- Use **only R134a** refrigerant with this equipment.

- Do not expose the machine to direct artificial heat or rain.

- **Do not tamper with or change** safety control devices or their settings.

- The power cable may only be connected to a socket with nominal voltage stated on the rating plate, located at the rear of the unit.

- Power lead plug to be connected **only to power point with an earth**.

- When transporting the unit **keep upright and remove refrigerant cylinder from platform**.

- Never operate the equipment with a damaged power lead, **replace it immediately.**

- **RISK OF ELECTRICAL SHOCK.** Before removing any protective cover from unit, **always unplug power lead from power point**.

- Do not cover ventilation openings when unit is operating.

- Maintenance is to be carried out as per the manufacturer recommendation shown in this manual. **Only Ariazone approved parts are to be used for maintenance and repairs.**

- Only autorised technician can mainentance the Ariazone units.

- Only non agresive substacens to be used for cleaning of the unit.

- Araizone 5001HD does not contents flamable gases.

3. Technical Features

Refrigerant **R134.a**

Electronic refrigerant scale ..... **+/- 10 g resolution**

Load cell ..... **60kg with 150% overload capacity**

LP and HP gauges ..... **AI-D 68 mm kl.1.0**

Recovery cylinder **27kg**

Recovery pump ..... **Danfoss FR11G, 275W**

Recovery rate ..... **380 g/min liquid state**

Vacuum pump ..... **2 stage, 100 l/min,**

Vacuum ..... **3 x 10^{-1} Pa**

Dimensions ..... **W- 580 mm, D- 620, H-1090 mm**

Weight **83kg**

Chassis ..... **Sturdy all steel construction powder coated.**

Supply voltage **230V/ 50Hz**

Noise level ..... **< 70 dB (A)**

Fixed wheels ..... **200mm (8") Heavy duty**

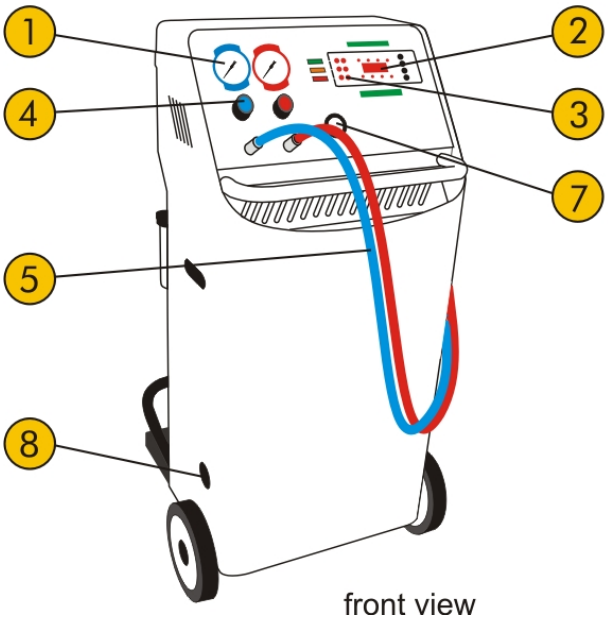
Caster wheels ..... **75mm (3") Heavy duty**

Working conditions ..... **5 - 45 °C ambient temperature, up to 80% humidity, 2000m altitude**

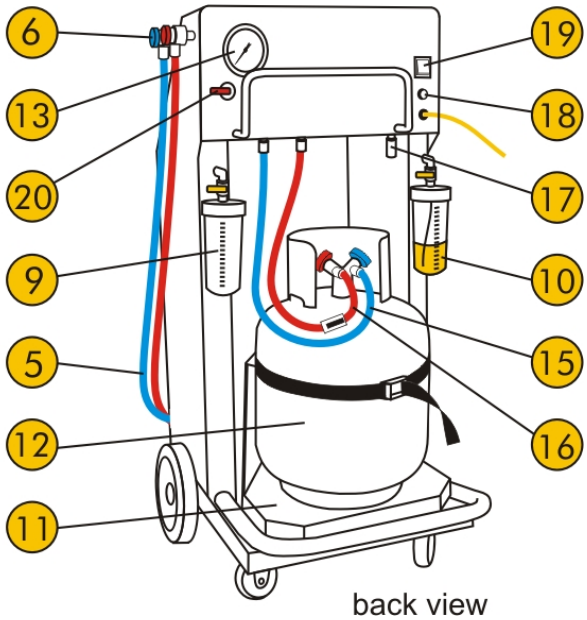
Measuring instrument..... **I kategory (Not to be mixed with II, III, IV category)**

Approvals ..... **EN 61010-1 Electric safety, EN 55014-1 EMC**

4. Main Parts & Features



front view



back view

1. Analog Gauges - Two large analogue gauges display suction and discharge pressures. The gauges are mounted on the front panel for easy viewing by the operator. Pressures are displayed in Bar & PSI and temperatures in degrees Celsius.

2. Display - Numerical display indicates the values and LED indicators above and below the numeric display inform the operator whether the display is indicating kg or lb, remaining vacuum time, weight of refrigerant currently within the cylinder, the amount of refrigerant being charged or the amount of refrigerant recovered.

3. Mode Indicator - LED group and membrane switches (keys). Three pairs of LED blocks indicate the mode and status of the unit. These are used in conjunction with the adjacent membrane switches to select the unit functions. Further, once the mode is in operation the pattern in which the LEDs flash, indicate the activity of the system. These can be viewed from several meters.

4. Hand Valves - The console hand valves allows the operator to control the flow of the refrigerant (if desired).

5. Discharge & Suction Service Hoses - A pair of 1.8m (72") hoses are connected to the console, which allows the operator to connect the unit to the vehicle air-conditioning system service ports for testing system pressure, recovering and recharging the refrigerant, oil and/or UV Dye.

6. Service Hose Quick Couplers - Service hose quick couplers allows the operator to connect the unit to the vehicle air-conditioning system service ports without exhausting the refrigerant into the environment.

7. Moisture Indicator - The moisture indicator is conveniently mounted on the console for added protection to indicate the condition of refrigerant and filter change intervals.
The following colors correspond to the following moisture content:
Green or Blue - Dry, Yellow or Pink - Wet,

8. Vacuum Pump Oil Level - Oil level must be checked when the pump is running, the oil level should be even with the line on the vacuum pump sight glass. Under filling will result in poor vacuum performance. Over filling can result in oil blowing from the vacuum pump exhaust.

9. Recovered Oil Drain Reservoir - A plastic vessel of 250ml (8.75oz) is mounted on the right rear of the unit allows the operator to gauge the amount of oil recovered from the air conditioning system (if any).

10. Oil Storage Reservoir - A plastic vessel of 250ml (8.75oz) is mounted on the left rear of the unit, allows the operator to inject oil into air conditioning system automatically.

11. Cylinder platform / Electronic scale

12. Refrigerant Cylinder 27kg secured with the strap on the platform

13. Cylinder Pressure Indicator - A large pressure gauge is mounted on the back upper side of the unit to indicate to the technician of any air (non-condensable) built up in the storage cylinder.

15. Cylinder vapor hose

16. Cylinder liquid hose with ball valve

17. Brass adapter or adapter hose

18. Fuse - 10A

19. Power switch

20. Cylinder air purge valve

5. Preparing the machine for the first use

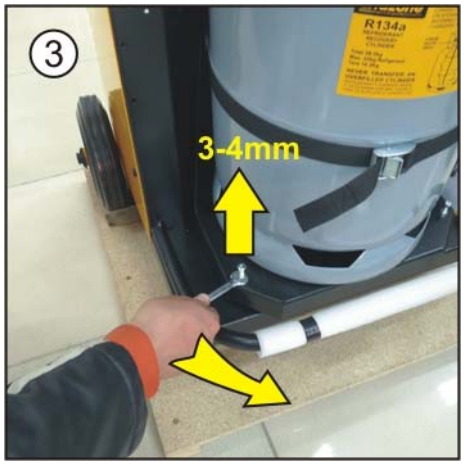
Perform the following steps to prepare the unit before the first use:

1. Remove the nylon wrapped and styrofoam insert behind the cyinder (12).

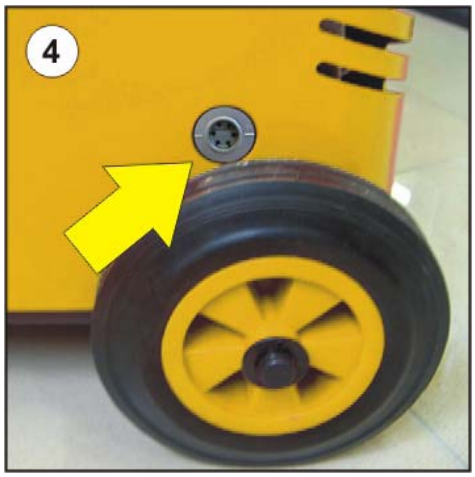
2. Check to ensure that all of the accessory components are present:

- Cylinder (12)
- Adapter (17)
- Cylinder vapor hose (15) - red
- Cylinder liquid hose with ball valve (16) - blue
- Service hoses with quick couplers (5)
- User's manual
- Cylinder strap

3. Check that the cylinder (12) is already placed on the platform (11) and properly secured with the strap provided. Unscrew two securing M6 bolts placed on each side of the platform basis app. 3-4 mm and LOCK them in place with nuts provided.



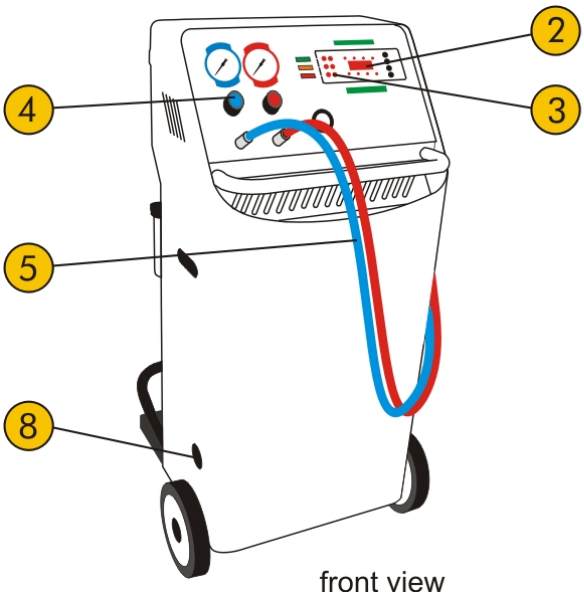
4. Check the vacuum pump oil level (8).
The oil level should be even with the line on the vacuum pump sight glass when the pump is not running.



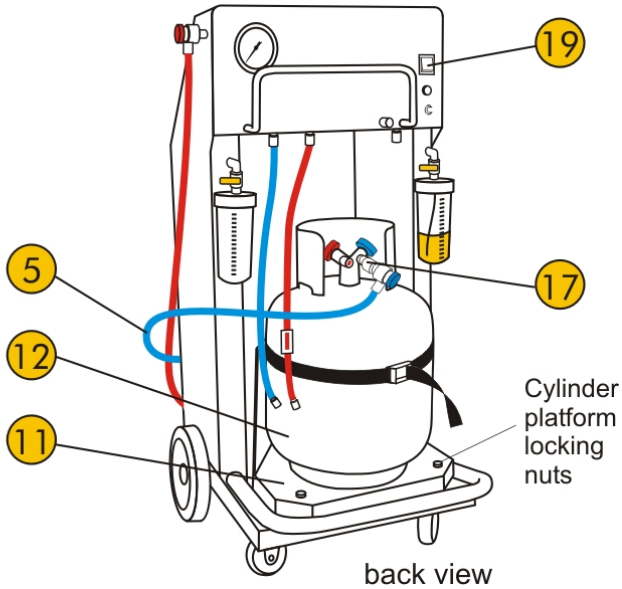
5. Power up (19) the unit. The unit will perform a lamp test, whereby all LED displays are illuminated. This will enable the operator to determine if any displays have failed. After the sequence has been completed, the display (2) will indicate FILT - 99Hr. This is the number of hours left before equipment servicing is required and the amount of refrigerant in the cylinder(12). If the cylinder is delivered empty, display should indicate app. 0kg of refrigerant in the cylinder. If not, please perform TARE function (0kg calibration, paragraph 15).

6. Mode Selection. To select a mode of operation, press either the "UP" or "DOWN" arrow keys until the LED indicator (3) is beside the desired function. Press 'START' key which will cause the unit to enter the selected mode. Any mode that has been selected can be exited by pressing the 'STOP' key.
Note, that if a valid key was depressed, the unit will beep. If an inappropriate selection has been made, i.e. attempting to select a mode whilst another mode is in operation, the unit will ignore the pressed key and will not beep.

7. Refrigerant cylinder (12) fitted on a platform is evacuated during the production process. **Anyway, check if refrigerant cylinder (12) is evacuated** (during the transport and delivery, vacuum could be lost). If the vacuum is lost, please perform following steps to Evacuate refrigerant cylinder (12) before filling it with refrigerant:



front view

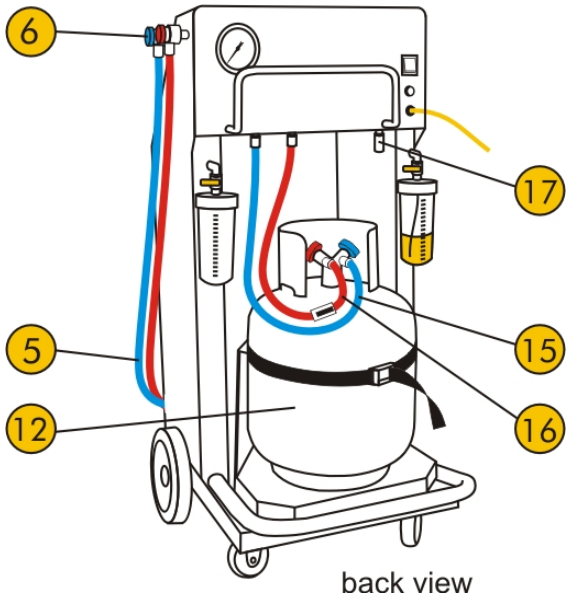


back view

- Connect blue service hose (5) to cylinder (12) by using adaptor (17).
- Open cylinder (12) valve, service hose (5) quick coupling and handle (4) on the unit panel.
- Press the 'UP" key twice to select Evacuation function. Press, "START" and with the keys "UP" and "DOWN" select 30 minutes. Press "START" key again and the unit will start the evacuation process.
- After 30 min. the unit will automatically stop. **Close the cylinder valve**, disconnect the service hose (5) and adapter (17) from cylinder, place to the storage ports and connect liquid hose (16) to the cylinder liquid side and vapor hose (15) to the cylinder vapor side.

LIQUID AND VAPOR HOSES MUST BE CONNECTED TO VAPOR AND LIQUID PORTS ON THE STORAGE CYLINDERS. INCORRECT CONNECTION WILL CAUSE CHARGING TO BE VERY SLOW.

9. Open both cylinder valves and open liquid hose (16) ball valve.



back view

The Ariazone 5001HD is now ready for use.

6. Display descriptions

HIgH PrES - Excess pressure in refrigerant cylinder

TArE - Calibrating the weight display to read -0.00 with an empty cylinder on platform.

SPAn - Calibrating of the refrigerant electronic scale

Err1 - Disconnected load cell lead or faulty load-cell.

CYL FULL - Refrigerant weight exceeds maximum allowable limit and will not recover any more refrigerant

nO rEF - No refrigerant pressure in service hoses, or manifold hand valves are not open

dOnE - The selected function is completed

FILT 99Hr - Displays filter life in number of hours when machine is switched on

PAUS - Recovery pause is running, for duration of three minutes.

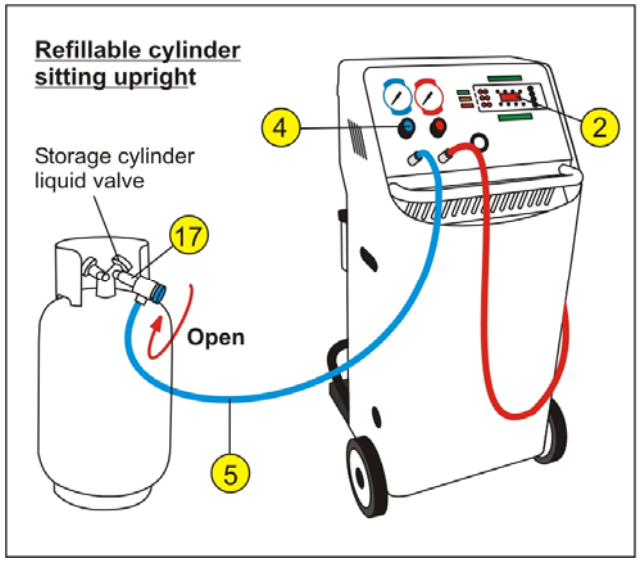
bUSY - Purge solenoid opens to cylinder vapour port to pressurize oil separator

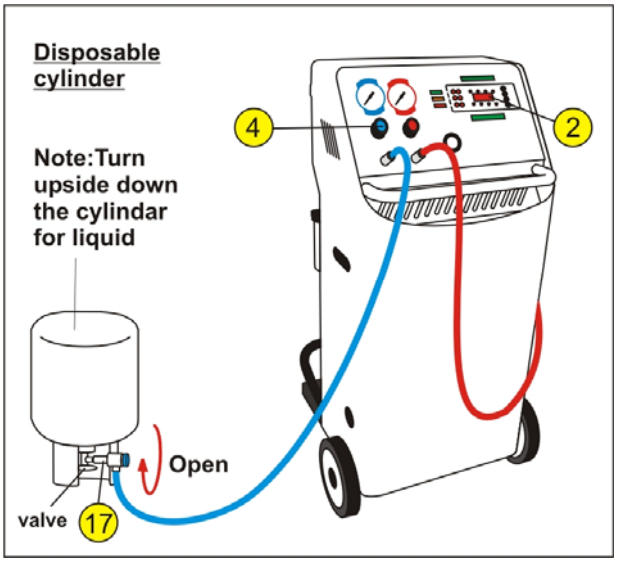
CYL - This display allows the operator to set the maximum allowable refrigerant weight in cylinder.

7. Filling cylinder with refrigerant procedure

The refrigerant cylinder (12) may be filled with refrigerant by following procedures.

Using refillable cylinder procedure
Have cylinder sitting upright, connect the suction (blue) service hose (5) to storage cylinder **liquid valve** by using the refrigerant cylinder adapter (17) supplied, open **liquid valve** on storage cylinder, open service hose quick coupling (5) and console blue hand valve (4) >>>





Using disposable cylinder procedure
Connect the suction (blue) service hose (5) to a storage cylinder valve by using the refrigerant cylinder adapter (17). Turn upside down the cylinder for liquid, open the valve on the storage cylinder, open service hose quick coupling (5) and console blue hand valve (4) >>>

>>> With "UP" key select the Recovery function and press "START". With "UP" or "DOWN" keys select amount of refrigerant to be transferred. Press "START" key and unit will automatically transfer the refrigerant from storage cylinder to the unit cylinder (12).

When the desired amount of refrigerant is transferred, close the storage cylinder valve and allow the unit to recover the refrigerant from the service hose (5). Once the function is completed the unit will display symbol "DONE" and the amount of refrigerant transferred will be displayed in kg or lb on main display (2).

The cylinder may be taken to your refrigerant supplier and refilled. We recommend that the cylinder is not filled to it's maximum capacity or the unit will not allow you to recover, due to the safety features incorporated.

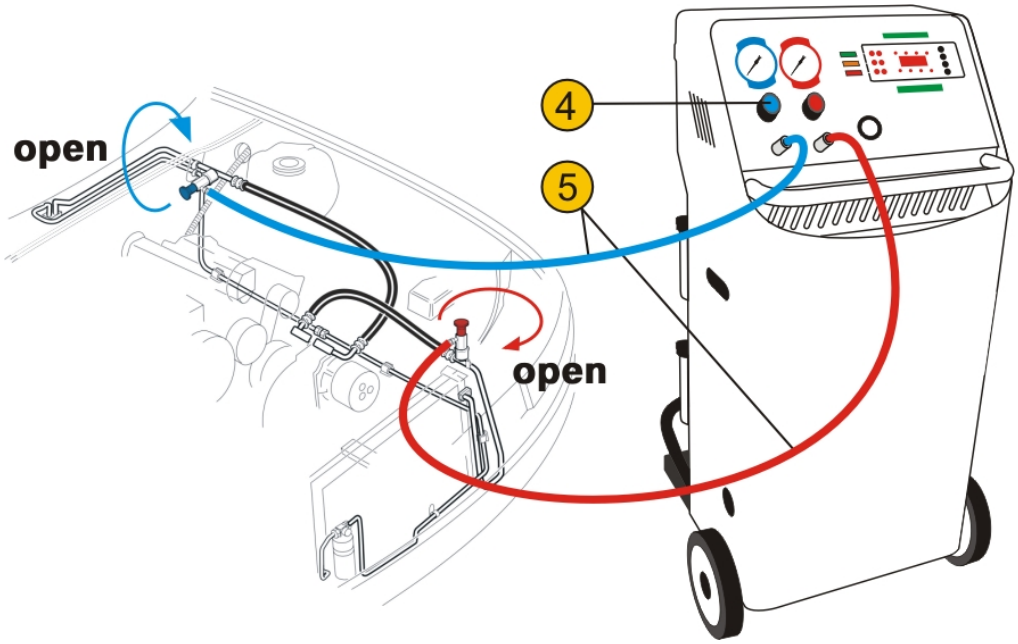
WARNING:
- Always keep a minimum of 2kg in the cylinder (12).
- Do not allow the cylinder to be filled above 80% of it's capacity.
- Never transport an overfilled cylinder. Refrigerant expands when heated and may cause the pressure relief valve to open and exhaust refrigerant in to the atmosphere or the cylinder may rupture.

8. Connecting Ariazone 5001HD to vehicle A/C system

Use the service hose (5) quick couplings to connect the hoses to the A/C system service ports, bearing in mind that BLUE must be connected to the low-pressure (suction) side and RED to high pressure (discharge) side.

If the system is equipped with a single service port, connect only the appropriate hose.

Note: Before connecting the quick couplers, clean the a/c ports of any foreign material.



Winding the quick coupler hand wheel clockwise, will allow the refrigerant to flow through the hoses. Turning hand wheel in opposite direction, the flow will be closed. If there is any refrigerant in the air-conditioning system, the pressure gauges will indicate a pressure rise.

Important: Console manifold hand valves (4) need to stay closed, NOT to allow refrigerant to enter into the unit until the required function has been selected.

The unit gauges (suction & discharge) are important and useful instruments.
The operator should have basic understanding of gauge readings and air-conditioning system operation, in order to correctly diagnose any possible system malfunction.

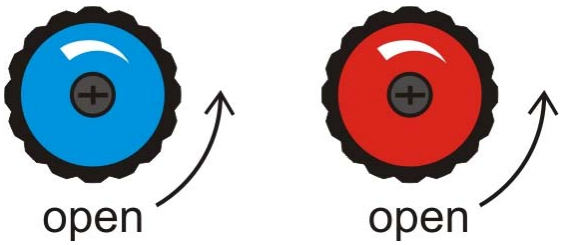
9. Recovery & Recycling Mode

The purpose of the Recovery & Recycling mode is to recover refrigerant from the air conditioning system, which will condense, purify and store the liquid refrigerant in the unit cylinder ready for re-use.

To initiate the Recovery mode, press the 'UP' key once, followed by 'START' on the console. Display shows (- - - -). Now, there are two choices:

1. Press "START" key again to recover the whole amount of the refrigerant from the A/C system or storage cylinder.

2. With "UP" or "DOWN" keys to select **desired** quantity of refrigerant to be recovered from the a/c system or storage cylinder. After the quantity selection, press "START" key.



Note: Open the hand manifold valves (4) on the console to allow the flow of the refrigerant from the a/c system before making the above selection (valves on the unit storage cylinder (12) and ball valve on the cylinder liquid hose (16) must be open, too).

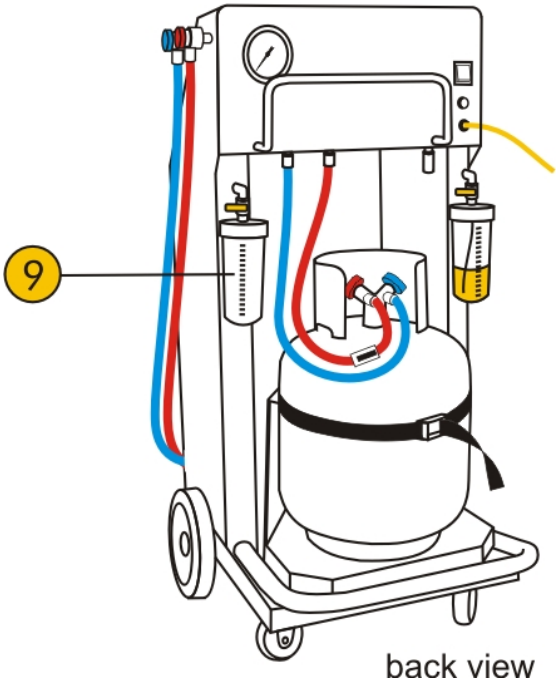
During the recovery process, the Recovery mode LED indicator will be ON and the display (2) will indicate the amount of refrigerant being recovered.

In normal operation the above condition will be maintained until a vacuum of -0.4 bar is reached at either the discharge or suction ports. When this occurs, the machine will beep once, and the unit will enter in Recovery "PAUSE" mode. In this mode, the unit will shut down the recovery function and pause for 3 min., which during this time the recovery mode indicator will be ON constantly. The display (2) will indicate "PAUSE". During this function, the unit is monitoring whether the air-conditioning system pressure is increasing, due to any refrigerant that may be left in the accumulator or dryer. If the pressure increases above zero, the machine will re-start the recovery function automatically and recover the rest of the remaining refrigerant.

If at the end of Recovery process a sufficient vacuum of -0.4 Bar has been maintained, the unit will stop, the display (2) will indicate 'DONE' and the amount of refrigerant recovered will be displayed in kg (or lb) depending on the operator's selection.

Press 'STOP' on the console, the unit will display "busy" for 5 seconds.

IMPORTANT: At completion of recovery function, open the valve on recovered oil vessel (9) to gauge amount of oil (if any) that has been recovered.



Conditions that will halt the recovery mode

1. **Refrigerant cylinder (12) full.** To protect the storage cylinder (12) being overfilled, the unit will not allow the operator to recover refrigerant once it has reached 80% of its capacity.

2. **Air conditioning system empty.** If the A/C system pressure is not above atmospheric pressure, the recovery function will not be activated.

3. **High Pressure.** If the operating pressure of the unit exceeds 25 bar (340 PSI), the unit will stop and display '**HigH - PrES'**. The following can cause the above:

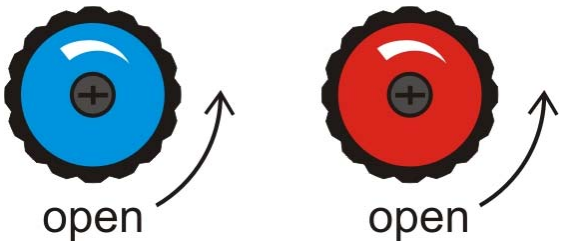
- Cylinder (12) valves not open.
- Restricted cylinder hose (16). Check the ball valve.
- Excessive high ambience temperatures.
- Excessive air in refrigerant into the cylinder (12).
- Faulty pressure control.

In all the above circumstances, press the 'STOP' key to return to the machines initial mode.

10. Evacuation Mode

In the evacuation mode the air and moisture in the air conditioning system is removed and exhausted to the atmosphere. The evacuation pump in the Ariazone system is capable of developing a vacuum of -0.99 bar (29.99 in hg). The evacuation mode runs for a predetermined time selected by the operator.

To initiate evacuation mode, press the 'UP' key twice, followed by the 'START' key. Select the desired evacuation duration by pressing the 'UP' key to increase or 'DOWN' key to decrease *time duration*. Once the desired time has been selected press the 'START' key and the function will commence.



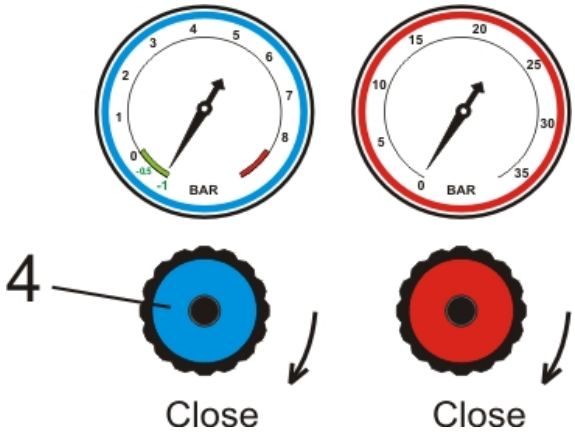
Note: During evacuation mode hand valves (4) on the console must be open.

The evacuation time can be set from one minute to two hours.

At any time the evacuation time can be paused or cancelled by pressing the stop button once to pause, or twice to cancel the function.

The Ariazone system has a unique function that if the evacuation function is selected and there is residual refrigerant in the air conditioning system, greater then 0.6 bar or 9 psi, the unit would detect this condition, whereby it will beep six times to warn the operator. After this warning the unit will automatically recover the residual refrigerant once it has recovered the entire refrigerant it will start the selected evacuation function automatically.

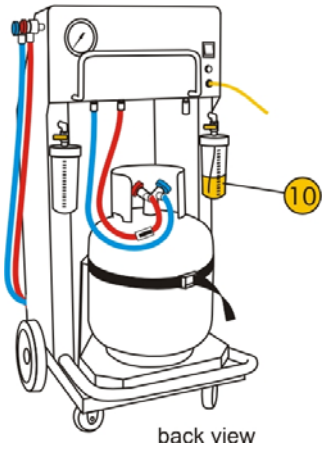
Note: After the evacuation process is completed, close both hand valves on console (4). By closing the valves the unit is "isolated" from the A/C system to allow for monitoring of any possible vacuum leak, that may exist in the air- conditioning system. This is achieved by monitoring the suction and discharge gauges.

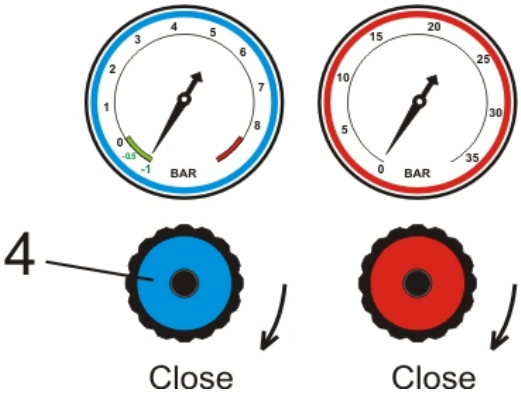


11. Oil or/and UV Dye Injection Mode

The purpose of the oil injection mode is to batch a user-defined quantity of refrigerant oil or/and UV Dye from the graduate reservoirs on the unit to the vehicle air-conditioning system.

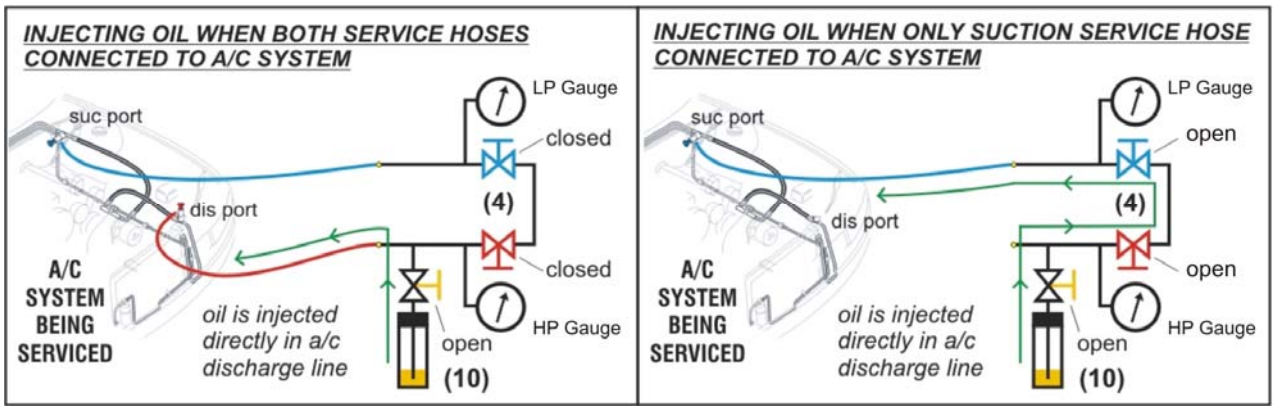
Important: The unit requires that the air conditioning system has previously been evacuated to a maximum vacuum before this function can be carried out. Make sure you have sufficient oil or/and UV Dye in the oil reservoir (10).





Keep hand valves (4) closed on the console. Open the ball valve on the oil reservoir (10) and note the amount of oil being injected, by the graduations on the reservoir. Close the ball valve when the correct amount has been injected.

Warning: If the oil reservoir (10) valve is not closed, excessive oil will be charged into the air conditioning system, or the oil will be blown out of the reservoir when charging a system.



On A/C systems without discharge port, oil and UV dye can be carefully injected through suction port. That case **open both hand valves (blue and red) (4)** on the console.

CAUTION: If service port is located close or on the compressor make sure to rotate the compressor nub 4-5 times by hand before start the A/C system. If this process is not carried out the compressor may be severally damaged.

Conditions that will prevent oil or/and UV dye injection:

- Insufficient vacuum.
- Hand valves (4) **not opened** on console.
- Schrader valve on A/C system service port not depressed.
- No oil in the reservoir (10).

12. Refrigerant Charge Mode

The purpose of the refrigerant charge mode is to batch a user-defined weight of refrigerant into the air-conditioning system.

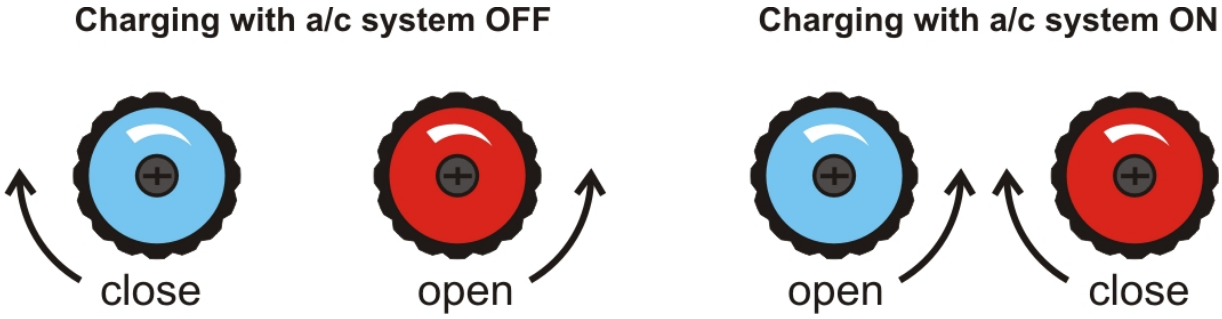
Important: It is recommended that the A/C system is always properly evacuated and leak tested, before refrigerant is charged in to the A/C system.

To initiate charging mode, press the 'UP' key three times (or DOWN once), followed by the 'START' key. Select the desired refrigerant amount by pressing the 'UP' key to increase or 'DOWN' key to decrease. The smallest increment of refrigerant charge weight is 0.01kg. If the units of weight are in lb the smallest increment of refrigerant charge weight is 0.02lb.

The maximum refrigerant weight that can be set at this point is determined by the actual refrigerant weight available in the cylinder (12).

Holding the 'UP' or 'DOWN' keys for longer than two second will cause the increments of weight change to increase or decrease rapidly.

Once the refrigerant charge weight has been set, press the 'START' key and open appropriate hand valve depending on weather you are charging with the engine running or stationary (if the A/C system is OFF or ON).



The display (2) will start from zero and will indicate the amount of refrigerant that has been charged into the air-conditioning system. This function can be paused at any time, by pressing the 'STOP' key once, or twice, to cancel the function.

If the charge function has been paused, the amount of refrigerant that has been charged to that point will be displayed, to continue the charge function press the 'START' key.

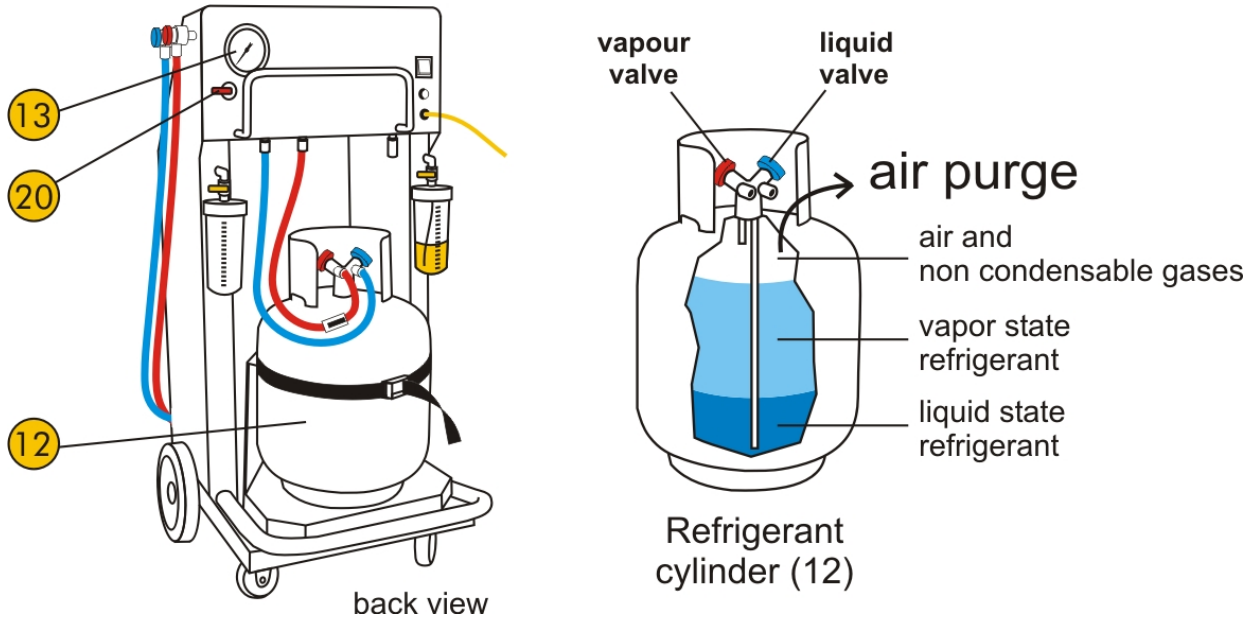
Once the present refrigerant weight has been charged, the charge function will automatically stop and the display will indicate 'DONE'. The operator can return the machine to its initial state by pressing 'STOP' key on the console.

Conditions that will prevent refrigerant charging

- If there is little or no refrigerant in cylinder (12). The operator will not be able to select the desired amount of refrigerant required.
- If the cylinder (12) valve is closed.
- If the hand manifold valve (4) console is closed.
- If the A/C system service port Schrader valve is not depressed.

13. Cylinder Air Purge

Once a week check if there is non-condensable (air) build up in the refrigerant cylinder.



First, measure the ambient temperature. Then read the cylinder pressure on rear gauge (13) and compare it with the temperature pressure chart, affixed to the machine.

If the cylinder pressure is higher than the pressure/temperature chart, there are non-condensable gases (air) in the cylinder (12). Slightly OPEN ball valve (20) to purge the non-condensable gases (air) from the cylinder (12) and bring back the pressure to the recommended chart values.

Note: After recovery process it is normal that cylinder pressure is higher than the pressure/temperature chart shows. Always read the cylinder pressure gauge (13) first thing in the morning before operating the machine.

Example: Ambient temp. 20 ^{o}C, the cylinder pressure should be 4.7 bar (68 PSI).

Ambient temperature	***Air purge gauge readings***	
(C^{o})	**bar**	**PSI**
8	2.9	42
12	3.4	49
18	4.3	63
20	4.7	68
22	5.1	73
24	5.4	79
26	5.8	84
28	6.2	90
30	6.7	96
34	7.6	110
38	8.6	124
42	9.7	14.1
46	10.9	157
50	12.1	175

14. Service Procedure

The following table describes the service intervals of the unit.

Every 100 Working Hours /Once a Year Service
The service alarm will alert the operator for maintenance and filter replacement.

Interval	Component	Procedure
Every 100 Hr / Once a year	Main Filter Dryer	Replace
Every 100 Hr / Once a year	Primary Recovery Line Filter	Replace
Every 100 Hr / Once a year	Vacuum Pump Oil - 330ml	Drain and refill
Every 100 Hr / Once a year	Service hose "O" rings	Check / Replace
Every 100 Hr / Once a year	Gauges	Test calibration
Every 100 Hr / Once a year	Weight Platform	Test calibration

Service Kit 100Hr
(Vacuum pump Oil (330ml) x 2, Recovery Line Filter, Main Filter Dryer, Service Hoses "O" rings)
Art. No: 000774
Pack. Dimensions: 120 x 200 x 210mm

Every 300 Working Hours Service
The unit requires 100 hour service plus replacing of oil separator, primary charging filter and recovery pump (compressor) oil.

Interval	Component	Procedure
300 Hours	Oil Separator	Replace
300 Hours	Primary Charging Line Filter	Replace
300 Hours	Recovery Pump Oil - 400ml	Drain and refill
300 Hours	Main Filter Dryer	Replace
300 Hours	Primary Recovery Line Filter	Replace
300 Hours	Vacuum Pump Oil - 330ml	Drain and refill
300 Hours	Service hose "O" rings	Check / Replace
300 Hours	Gauges	Test calibration
300 Hours	Weight Platform	Test calibration

Service Kit 300Hr
(Vacuum pump Oil (330ml) x 2, Recove. Line Filter, Main Filter Dryer, Service Hoses "O" rings, Charging Line Filter, Oil Separator, Recov. Pump Oil - 500ml)
Art. No: 001048
Pack. Dimensions: 120 x 200 x 210mm

Manufacturer recommends a record of all services on the machine to be kept.

Note: Always wear appropriate protect clothing and safety glasses when servicing the machine.

Notes:

D E C L A R A T I O N O F C O N F O R M I T Y

The company: Ariazone International Europe
15-ti Korpus bb.,
6000 Ohrid,
MACEDONIA

Hereby declares that the product:

Ariazone 5001HD - Automotive A/C Service Station

Meets all requirements of European Directives:
2006/95/EC (ex 73/23/EEC) Low Voltage Directive
2004/108/EC Electromagnetic Compatibility
98/37/EC Machine Directive
and subsequent amendments entered in force to the date of declaration.
The following standards and technical specifications, conforming to EEC Harmonized Regulations were applied:

EN 61010-1:2001 with cross references: EN 60227, EN 60245, EN 60309:2003; EN 60799, EN 60804, EN 60825-1
EN 55014-1; EN ISO 12100-1; EN ISO 12100-2;
EN ISO 12100-1:2003; EN ISO 12100-2:2003

The producer also declares that equipment confirms Directives and Standards when used according to manufacturer specifications.

Date and place of issuing:

Ohrid, _____

Serial No: _____

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